

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
MRD/61

SERIAL NO.

INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Raghavan Rajagopalan et
al.FILING DATE
July 3, 2001

GROUP

(Use several sheets if necessary)

(37 CFR 1.98(b))

JP997 U.S. PTO
09/098887
07/03/01

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
OK	A.A	5 5 1 8 9 8 8	5/1996	Waldman	435	7.23	
OK	A.B	5 7 1 4 3 4 2	2/1998	Komoriya et al.	435	23	
	A.C						
	A.D						
	A.E						
	A.F						
	A.G						
	A.H						
	A.I						
	A.J						
	A.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	A.L					
	A.M					
	A.N					
	A.O					
	A.P					
	A.Q					

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

OK	A.R	S. Achilefu, Ph.D. et al., <u>Novel Receptor-Targeted Fluorescent Contrast Agents for In Vivo Tumor Imaging</u> , Investigative Radiology, Vol. 35, No. 8, 2000, 479-485.
OK	A.S	Jerome Amaudrut et al., <u>The Thermal Sulfenyl-Sulfoxide Rearrangement: A Radical Pair Mechanism</u> , J. Amer. Chem. Soc., Vol. 122, 2000, 3367-3374.
OK	A.T	A. Andreoni et al., <u>Tumour photosensitization by chemotherapeutic drugs</u> , Biology, N3, 1993, 43-46.

EXAMINER

David Sutton

DATE CONSIDERED

3/22/04

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
MRD/61

SERIAL NO.

INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Raghavan Rajagopalan et
al.

FILING DATE

GROUP

(Use several sheets if necessary)

(37 CFR 1.98(b))

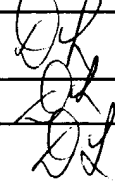
U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	B.A						
	B.B						
	B.C						
	B.D						
	B.E						
	B.F						
	B.G						
	B.H						
	B.I						
	B.J						
	B.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	B.L						
	B.M						
	B.N						
	B.O						
	B.P						
	B.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	B.R	Byron Ballou et al., <u>Tumor labeling in vivo using cyanine-conjugated monoclonal antibodies</u> , Cancer Immunology and Immunotherapy, Vol. 41, 1995, 257-263.
	B.S	M.D. Daniell et al., <u>A History of Photodynamic Therapy</u> , Aust. N.Z. J. Surg., Vol. 61, 1991, 340-348.
	B.T	T.J. Dougherty et al., <u>Photoradiation Therapy. II. Cure of Animal Tumors with Hematoporphyrin and Light</u> , Journal of the National Cancer Institute, Vol. 55, No. 1, 1975, 115-121.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
MRD/61

SERIAL NO.

INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Raghavan Rajagopalan et
al.

FILING DATE

GROUP

(Use several sheets if necessary)

(37 CFR 1.98(b))

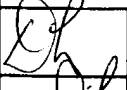

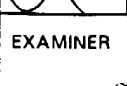
U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	C.A						
	C.B						
	C.C						
	C.D						
	C.E						
	C.F						
	C.G						
	C.H						
	C.I						
	C.J						
	C.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	C.L						
	C.M						
	C.N						
	C.O						
	C.P						
	C.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	C.R	G. Freiherr, <u>The Light Stuff: Optical Imaging in Medical Diagnosis</u> , Medical Device & Diagnostic Industry Magazine, 1998, 1-7.
	C.S	M.R. Hamblin et al., <u>On the mechanism of the tumour-localising effect in photodynamic therapy</u> , J. Photochem. Photobiol. B: Biol., Vol. 23, 1994, 3-8.
	C.T	J. C. Hebden et al., <u>Diagnostic imaging with light</u> , The British Journal of Radiology, Vol. 70, 1997, S206-S214.

EXAMINER



DATE CONSIDERED

3/22/04

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
MRD/61

SERIAL NO.

INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Raghavan Rajagopalan et
al.

FILING DATE

GROUP

(Use several sheets if necessary)

(37 CFR 1.98(b))

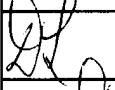
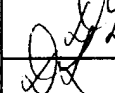
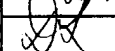
U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	D.A.						
	D.B.						
	D.C.						
	D.D.						
	D.E.						
	D.F.						
	D.G.						
	D.H.						
	D.I.						
	D.J.						
	D.K.						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	D.L.						
	D.M.						
	D.N.						
	D.O.						
	D.P.						
	D.Q.						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	D.R.	D.J. Hnatowich et al., <u>Radioactive Labeling of Antibody: A Simple and Efficient Method</u> , Science, Vol. 220, 1983, 613-615.
	D.S.	G. Jori, <u>Tumour photosensitizers: approaches to enhance the selectivity and efficiency of photodynamic therapy</u> , Journal of Photochemistry and Photobiology B: Biology, Vol. 36, 1996, 87-93.
	D.T.	G. Jori, <u>Novel Therapeutic Modalities Based on Photosensitized Processes</u> , EPA Newsletter, No. 60, 1997, 12-18.

EXAMINER



DATE CONSIDERED

3/22/04

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
MRD/61

SERIAL NO.

INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Raghavan Rajagopalan et
al.

FILING DATE

GROUP

1653

(37 CFR 1.98(b))

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	E.A						
	E.B						
	E.C						
	E.D						
	E.E						
	E.F						
	E.G						
	E.H						
	E.I						
	E.J						
	E.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	E.L						
	E.M						
	E.N						
	E.O						
	E.P						
	E.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	E.R	G. Jori, <u>Far-red-absorbing photosensitizers: their use in the photodynamic therapy of tumours</u> , J. Photochem. Photobiol. A: Chem., Vol. 62, 1992, 371-378.
	E.S	G. Jori et al., <u>Second Generation Photosensitizers for the Photodynamic Therapy of Tumours</u> , Light in Biology and Medicine, Vol. 2, R.H. Douglas et al. (Eds.), 1991, 253-266.
	E.T	M. Korbek, <u>Photosensitizers in photodynamic therapy</u> , Periodicum Biologorum, Vol. 93, No. 4, 1991, 563-574.

EXAMINER

DATE CONSIDERED

3/22/04

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
MRD/61

SERIAL NO.

INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Raghavan Rajagopalan et
al.

FILING DATE

GROUP

(37 CFR 1.98(b))

(Use several sheets if necessary)

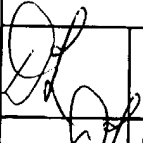
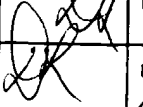
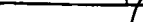
U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	F.A						
	F.B						
	F.C						
	F.D						
	F.E						
	F.F						
	F.G						
	F.H						
	F.I						
	F.J						
	F.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	F.L						
	F.M						
	F.N						
	F.O						
	F.P						
	F.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	F.R	K. Licha et al., <u>New Contrast Agents for Optical Imaging: Acid-Cleavable Conjugates of Cyanine Dyes with Biomedicals</u> , Part of the SPIE Conference on Molecular Imaging: Reporters, Dyes, and Instrumentation, Proceedings of SPIE, Vol. 3600, 1999, 29-35.
	F.S	R.L. Lipson, M.D. et al., <u>Hematoporphyrin Derivative for Detection and Management of Cancer</u> , Cancer, Vol. 20, No. 12, 1967, 2255-2257.
	F.T	Y. Luo et al., <u>Rapid Initiation of Apoptosis by Photodynamic Therapy</u> , Photochemistry and Photobiology, Vol. 63, No. 4, 1996, 528-534.

EXAMINER



DATE CONSIDERED

3/22/04

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
MRD/61

SERIAL NO.

INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Raghavan Rajagopalan et
al.

(Use several sheets if necessary)

FILING DATE

GROUP

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	G.A						
	G.B						
	G.C						
	G.D						
	G.E						
	G.F						
	G.G						
	G.H						
	G.I						
	G.J						
	G.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	G.L						
	G.M						
	G.N						
	G.O						
	G.P						
	G.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	G.R	K. Matsumura, <u>1-Aminoacridine-4-carboxylic Acid</u> , Journal of the American Chemical Society, Vol. 60, (1938) 591-593.
	G.S	G.G. Miller et al., <u>Preclinical Assessment of Hypocrellin B and Hypocrellin B Derivatives as Sensitizers for Photodynamic Therapy of Cancer: Progress Update</u> , Photochemistry and Photobiology, Vol. 65, No. 4, 1997, 714-722.
	G.T	T. Parasassi et al., <u>Two-photon microscopy of aorta fibers shows proteolysis induced by LDL hydroperoxides</u> , Free Radical in Biology and Medicine, Vol. 28, No. 11, 2000, 1589-1597.

EXAMINER

DATE CONSIDERED

3/22/04

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
MRD/61

SERIAL NO.

INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Raghavan Rajagopalan et
al.

(Use several sheets if necessary)

FILING DATE

GROUP

(37 CFR 1.98(b))

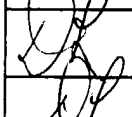

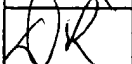
U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	H.A						
	H.B						
	H.C						
	H.D						
	H.E						
	H.F						
	H.G						
	H.H						
	H.I						
	H.J						
	H.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	H.L						
	H.M						
	H.N						
	H.O						
	H.P						
	H.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	H.R	D.J. Pasto et al., <u>Demonstration of the Synthetic Utility of the Generation of Alkoxy Radicals by the Proto-Induced, Homolytic Dissociation of Alkyl 4-Nitrobenzenesulfonates</u> , Tetrahedron Letters, Vol. 35, No. 25, 1994, 4303-4306.
	H.S	A. Pelegrin et al., <u>Photoimmunodiagnosis with antibody-fluorescein conjugates: in vitro and in vivo preclinical studies</u> , J. Cell Pharmacol, Vol. 3, 1992, 141-145.
	H.T	W. G. Roberts et al., <u>Role of Neovasculature and Vascular Permeability on the Tumor Retention of Photodynamic Agents</u> , Cancer Research, Vol. 52, 1992, 924-930.

EXAMINER



DATE CONSIDERED

3/22/04

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
MRD/61

SERIAL NO.

INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Raghavan Rajagopalan et
al.

FILING DATE

GROUP

(Use several sheets if necessary)

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	I.A						
	I.B						
	I.C						
	I.D						
	I.E						
	I.F						
	I.G						
	I.H						
	I.I						
	I.J						
	I.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	I.L						
	I.M						
	I.N						
	I.O						
	I.P						
	I.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	I.R	G.I. Stables et al., <u>Photodynamic therapy</u> , Cancer Treatment Reviews, Vol. 21, 1995, 311-323.
	I.S	T. Takemura et al., <u>Mechanism of Photodynamic Therapy: Exploration by Photophysiocochemical Study</u> , Frontiers of Photobiology, 1993, 503-506.
	I.T	K.B. Trauner et al., <u>Photodynamic Synovectomy Using Benzoporphyrin Derivative in an Antigen-Induced Arthritis Model for Rheumatoid Arthritis</u> , Photochemistry and Photobiology, Vol. 67, No. 1, 1998, 133-139.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
MRD/61

SERIAL NO.

INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Raghavan Rajagopalan et
al.

FILING DATE

GROUP

1653

(37 CFR 1.98(b))

(Use several sheets if necessary)

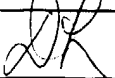
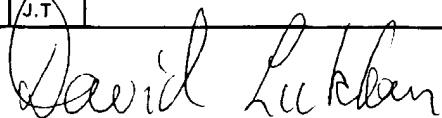
U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	J.A						
	J.B						
	J.C						
	J.D						
	J.E						
	J.F						
	J.G						
	J.H						
	J.I						
	J.J						
	J.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	J.L						
	J.M						
	J.N						
	J.O						
	J.P						
	J.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	J.R	I.P.J. van Geel et al., <u>Photosensitizing Efficacy of MTHPC-PDT Compared to Photofrin-PDT in the RIF1 Mouse Tumour and Normal Skin</u> , Int. J. Cancer, Vol. 60, 1995, 388-394.
	J.S	
	J.T	
EXAMINER		
	DATE CONSIDERED	3/22/04

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.